

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:

Medical: 1-800-327-3874

1-513-558-5111

Transportation:

1-800-535-5053

1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Seguridad del Producto pueden obtenerse en Espanol si lo requiere.

Product Name: Blacktop Asphalt Filler and Sealant - VOC Compliant

Revision Date: 10/13/2004

Product UPC Number: 7079827065

Supersedes: 10/13/2004

Product Use/Class: Asphalt Sealant

MSDS Number: 00079955001

Manufacturer: DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Asphalt	8052-42-4	15-40	0.5 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Silica, crystalline	14808-60-7	7-13	0.05 MGM3	N.E.	N.E.	(10 ÷ % SiO ₂) / 2 MGM3	N.E.	N.E.	No
Silica, amorphous	7631-86-9	7-13	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Calcined Clay	66402-68-4	5-10	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
alpha-Alumina	1344-28-1	3-7	10 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Iron oxide	1309-37-1	1-5	5 MGM3	N.E.	N.E.	10 MGM3	N.E.	N.E.	No
Potassium oxide	12136-45-7	0.5-1.5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
1,3-Butadiene	106-99-0	<0.0002	2 PPM	N.E.	N.E.	1 PPM	5 PPM	N.E.	No

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A black paste with a slight solvent odor. **WARNING! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S).** Do not breathe vapors. Skin sensitizer. Provide fresh air such that chemical odors cannot be detected during use and while drying. May cause eye, skin, nose, throat and respiratory tract irritation.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation, characterized by a burning sensation, redness, tearing, and inflammation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Signs and symptoms may include: pain, discoloration and swelling. Harmful if absorbed through the skin. Prolonged exposure to the skin may dry the skin and cause dermatitis or burns. **DO NOT** try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists.

Effects Of Overexposure - Inhalation: Vapor harmful. Vapors may be irritating to eyes, nose, throat, and lungs. This substance contains sulfur compounds that may form hydrogen sulfide. The rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000-2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed.

Effects Of Overexposure - Chronic Hazards: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum. This product contains clay, which contains crystalline silica. Crystalline silica has been listed as a carcinogen by IARC; however, the particles are coated with asphalt and are not available for inhalation. As such, there is little or no chance of inhalation of crystalline silica and resultant diseases.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Immediately remove from skin by wiping with waterless hand cleaner followed by soap and water. Get medical aid if symptoms persist.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately. If there are signs or symptoms of hydrogen sulfide exposure (respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor.

First Aid - Ingestion: If swallowed, **DO NOT INDUCE VOMITING.** Get medical attention immediately. Never give anything by mouth to an unconscious person. If possible drink milk afterwards.

Note to Physician: No Information.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the

above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Do not use a solid stream of water since the stream will scatter and spread the fire. Water mist may be used to cool closed containers. Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Do not breathe vapors. Provide fresh air such that chemical odors cannot be detected during use and while drying. Do not get in eyes, on skin or clothing. Keep away from food, drink and animal feedstuffs. Keep containers closed when not in use. Wash thoroughly after handling.

Storage: Close container after each use. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit. Provide sufficient air exchange and/or exhaust in work rooms.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary.

Skin Protection: Wear neoprene gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and face shield or splash goggles. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	Vapor Density:	Not Established
Odor:	Slight Solvent	Odor Threshold:	Not Established
Appearance:	Black	Evaporation Rate:	Not Established
Solubility in H2O:	Not Established	Specific Gravity:	1.219
Freeze Point:	Not Established	pH:	Between 7.0 and 12.0
Vapor Pressure:	Not Established	Viscosity:	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: None known.

Incompatibility: None known.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable at normal temperatures and pressures.

Section 11 - Toxicological Information

Product LD50: Not Established

Product LC50: Not Established

CASRN	Chemical Name	LD50	LC50
106-99-0	1,3-Butadiene		Rat:285 gm/m3/4H

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
14808-60-7	Silica, crystalline	Suspected human carcinogen.	----	----	Known carcinogen.
13463-67-7	Titanium dioxide	----	----	Classification not possible from current data.	----
106-99-0	1,3-Butadiene	Suspected human carcinogen.	Cancer hazard.	Probable carcinogen.	Known carcinogen.

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: None known.

Section 13 - Disposal Information

Disposal Information: Liquids cannot be disposed of in a landfill. Dispose of material in accordance with all federal, state and local regulations. Do not flush into surface water or sanitary sewer system. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name: Not Regulated
DOT Technical Name: N.A.
DOT Hazard Class: N.A.

Packing Group: N.A.
Hazard Subclass: N.A.
DOT UN/NA Number: None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
alpha-Alumina	1344-28-1

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
5-Chloro-2-methyl-4-isothiazoli	26172-55-4
2-Methyl-4-isothiazolin-3-one	2682-20-4

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Water	7732-18-5
Non-Hazardous Polymer	Proprietary

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Water	7732-18-5
Non-Hazardous Polymer	Proprietary

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed
Silica, crystalline	14808-60-7	Carcinogenic.	Listed: October 1, 1988
1,3-Butadiene	106-99-0	Carcinogenic.	Listed: April 1, 1988

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 0.0 LB/GAL: 0.0 WT%: 0.002

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
STEL – Short Term Exposure Limit	CEIL – Ceiling Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celcius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>